ertify that this correspondence is being deposited with the U.S. Postal Service Express Mail, Airbill No. EV342447115, in an envelope addressed to: MS Anandment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2231 450, on the date shown below.

Docket No.: 291958157US1 Client Ref No. P01-0022

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Wilson et al.

Application No.: 09/849,505

Confirmation No.: 8691

Filed: May 4, 2001

Art Unit: 1741

For:

TUNING ELECTRODES USED IN A

REACTOR FOR ELECTROCHEMICALLY PROCESSING A MICROELECTRONIC

WORKPIECE

Examiner: W. T. Leader

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Application No.: 09/849,505 Docket No.: 291958157US1

A copy of only the foreign patents and non patent literature documents is enclosed.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-0665, under Order No.

291958157US1.

Dated: 10/5/04

Respectfully submitted,

Steven D Lawrenz

Registration No.: 37,376

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OT PE COLL STORY OF PRADEMENT

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 10

Complete if Known			
Application Number	09/849,505-Conf. #8691		
Filing Date	May 4, 2001		
First Named Inventor	Gregory J. Wilson		
Art Unit	1741		
Examiner Name W. T. Leader			
Attorney Docket Number	291958157US1		

Examiner						
nitials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevar Figures Appear	
		US-09/679,928		Woodruff et al.		
		US-1,526,644	02-17-1925	Pinney		
		US-1,881,713	10-11-1932	Laukel		
		US-10/729,349		Klocke		
		US-10/729,357		Klocke		
		US-10/817,659		Wilson et al.		
		US-2,256,274	09-16-1941	Boedecker et al.		
		US-2001-0024611	09-27-2001	Daniel Woodruff		
		US-2001-0032788	10-25-2001	Daniel Woodruff		
		US-2001-0043856	11-22-2001	Daniel Woodruff		
		US-2002-0008036		Hui Wang		
		US-2002-0008037	01-24-2002	Gregory Wilson		
		US-2002-0032499	03-14-2002	Gregory Wilson		
		US-2002-0046952		Lyndon Graham		
		US-2002-0079215				
		US-2002-0096508		Weaver et al.		
		US-2002-0125141				
		US-2002-0139678				
		US-2003-0038035	02-27-2003			
		US-2003-0062258		Daniel Woodruff		
		US-2003-0070918				
-		US-2003-0127337		Kayle Hanson		
		US-2004-0031693	02-19-2004			
	-	US-2004-0055877		Gregory Wilson		
		US-2004-0099533	05-27-2004	Gregory Wilson		
		US-3,309,263	03-14-1967	Grobe		
		US-3,616,284	10/1971	Bodmer et al.		
		US-3,664,933	05-23-1972	Clauss		
		US-3,706,635		Kowalski		
	-	US-3,706,651				
		US-3,716,462	02-13-1973	Jensen		
		US-3,798,003	03-19-1974	Ensley et al.		
		US-3,878,066		Dettke et al.		
		US-3,930,963		Polichette et al.		
-		US-3,968,885				
		US-4,000,046	12-28-1976			
		US-4,022,679		Koziol et al.		
		US-4,030,015		Herko et al.		
		US-4,046,105	09-06-1977	Gomez		
		US-4,072,557	02-07-1978			
		US-4,082,638	04-04-1978			
			09-12-1978			
		US-4,1134,802				
		110 4 127 967	01-16-1976 02-06-1979			
				Gibbs		
		US-4,170,959	10-16-1979	 		
xaminer ignature				Date Considered		

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PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Filing Date	May 4, 2001		
First Named Inventor	Gregory J. Wilson		
Art Unit	1741		
Examiner Name	W. T. Leader		
Attorney Docket Number	291958157US1		

	110 4 000 004	100 40 4000	ID	
	US-4,222,834	09-16-1980		
	US-4,238,310		Eckler et al.	
	US-4,246,088		Murphy et al.	
	US-4,259,166	03-31-1981		
	US-4,287,029		KOUICHI SHIMAMURA	
	US-4,304,641		Grandia et al.	
	US-4,323,433		DAVID M. LOCH	
	US-4,341,629	07-27-1982		
	US-4,360,410		Fletcher et al.	
	US-4,378,283		MICHAEL SEYFFERT	
	US-4,384,930	05-24-1983		
L	US-4,391,694		BENGT W. RUNSTEN	
	US-4,422,915		Wielonski et al.	
	US-4,431,361	02-14-1984		
	US-4,437,943		ALEXANDER F. BECK	
	US-4,440,597	04-03-1984		
	US-4,443,117		Muramoto et al.	
	US-4,449,885	05-22-1984	Hertel et al.	
	US-4,451,197	05/1984	Lange	
	US-4,463,503	08-07-1984	ROBERT D. APPLEGATE	
	US-4,466,864		DUANE E. BACON	
	US-4,469,566	09-04-1984	Wray	
Ĭ	US-4,475,823	10-09-1984	Stone	
	US-4,480,028	10-30-1984	Kato et al.	
	US-4,495,153	01-22-1985	MINORU MIDORIKAWA	
	US-4,495,453		HAJIMU INABA	
	US-4,500,394		JOHN S. RIZZO	
	US-4,529,480	07-16-1985	Trokhan	
	US-4,541,895	09-17-1985		
	US-4,566,847	01-28-1986	TAKASHI MAEDA	
	US-4,576,685	03-18-1986	Goffredo et al.	
	US-4,576,689	03-18-1986	ALMAXUD M. MAKKAEV	
	US-4,585,539	04-29-1986		
	US-4,604,177		OLIVO G. SIVILOTTI	
	US-4,604,178		DALE R. FIEGENER	
	US-4,634,503	01-06-1987	DANIEL NOGAVICH	
	US-4,639,028	01/1987	Olson	
	US-4,670,126	06/1987	Messer et al.	
	US-4,685,414	08-11-1987		
	US-4,687,552	08-18-1987	Early et al.	
	US-4,693,017	09-15-1987	Oehler et al.	
	US-4,696,729	09-29-1987	Santini	
	US-4,715,934	12-29-1987	Tamminen	
	US-4,741,624	05-03-1988		
	US-4,760,671	08-02-1988	WILLIAM R. WARD	
	US-4,761,214		EDMUND R. HINMAN	
	US-4,770,590	09/1988	Hugues et al.	
	US-4,781,800		LEE M. GOLDMAN	
	US-4,800,818		Kawaguchi et al.	

Examiner	 Date	
Signature	 Considered	



Substitute for form 1449A/B/PTO

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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Attorney Docket Number	291958157US1		

	US-4,828,654		RONALD G. REED	
	US-4,849,054	07-18-1989	Klowak	
	US-4,858,539	08-22-1989		
	US-4,864,239	09-05-1989	Casarcia et al.	
LL	US-4,868,992	09-26-1989	Crafts et al.	·
	US-4,898,647	02/1990	Luce et al.	
	US-4,906,341	03-06-1990	KOJI YAMAKAWA	
	US-4,913,035	08-02-1988	Vohringer et al.	
	US-4,924,890	05-15-1990		
	US-4,944,650	07/1990	Matsumoto	
	US-4,951,601		Maydan et al.	
	US-4,959,278	09-25-1990	HIDENORI SHIMAUCH	
	US-4,962,726		Matsushita et al.	
	US-4,979,464		Kunze-Concewitz et al.	
	US-5,000,827	03-19-1991	VIRGIL E. SCHUSTER	· ·
	US-5,024,746	06-18-1991	Stierman et al.	
	US-5,026,239	06-25-1991	Chiba	
	US-5,048,589	09-17-1991	Cook et al.	
	US-5,054,988	10-08-1991	Shiraiwa	
	US-5,055,036	10-08-1991	Asano et al.	
	US-5,061,144	10-29-1991	MASAMI AKIMOTO	
	US-5,069,548	12-03-1991	Boehnlein	
	US-5,078,852	01-07-1992	IAN Y.K. YEE	
	US-5,083,364	01-28-1992	Olbrich et al.	
	US-5,096,550	03-17-1992	STEVEN T. MAYER	
	US-5,110,248	05-05-1992	Asano et al.	
	US-5,115,430	05-19-1992	ELLEN L. HAHNE	
	US-5,125,784	06-30-1992		
	US-5,128,912	07/1992	Hug et al.	
	US-5,146,136	09-08-1992	TOSHIO OGURA	
	US-5,151,168	09-29-1992	TERRY L. GILTON	
	US-5,155,336		Gronet et al.	
	US-5,156,174	10-20-1992	RAYMON F. THOMPSON	
	US-5,156,730	10-20-1992	ANILKUMAR C. BHATT	
	US-5,168,886		Thompson et al.	
	US-5,168,887	12-08-1992	RAYMON F. THOMPSON	
	US-5,169,408	12-08-1992	Biggerstaff et al.	
	US-5,172,803	12-22-1992	Lewin	
	US-5,174,045	12-29-1992	Thompson et al.	
	US-5,178,512	01/1993	Skrobak	
	US-5,178,639	01-12-1993	Nishi	
	US-5,180,273	01-19-1993	Salaya et al.	
	US-5,183,377	02-02-1993	Becker et al.	
	US-5,186,594	02-16-1993	Toshima et al.	
	US-5,209,817	05-11-1993	UMAR M. AHMAD	
	US-5,217,586	06-08-1993	MADHAV DATTA	
	US-5,222,310	06-29-1993	RAYMON F. THOMPSON	
	US-5,227,041	07-13-1993	BRUCE N. BROGDEN	
	US-5,228,232	07-20-1993	RODNEY MILES	

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Substitute for form 1449A/B/PTO

Sheet

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First Named Inventor	Gregory J. Wilson		
Art Unit	1741		
Examiner Name	W. T. Leader		
Attorney Docket Number	291958157US1		

f [US-5,228,966	07-20-1993	SATOSHI MURATA	
· ·	US-5,230,371	07-27-1993		
	US-5,232,511	08-03-1993		
	US-5,235,995		Bergman et al.	
	US-5,238,500	08-24-1993		
	US-5,252,137		Tateyama et al.	
	US-5,252,807	10-12-1993		
	US-5,256,262		Blomsterberg	
	US-5,256,274		JAIME PORIS	
	US-5,271,953	12-21-1993		
	US-5,271,972	12-21-1993		
	US-5,301,700		Kamikawa et al.	
	US-5,302,464		TAKUJI NOMURA	
	US-5,306,895		Ushikoshi et al.	
	US-5,314,294		TAKAO TANIGUCHI	
	US-5,316,642		DAVID J. YOUNG	
	US-5,326,455	07/1994	Kubo et al.	
	US-5,330,604	07-19-1994	Allum et al.	
	US-5,332,271	07-26-1994		
	US-5,332,445	07-26-1994	Bergman	
	US-5,340,456	08-23-1994		
	US-5,344,491	09-06-1994	MARIKO KATOU	
	US-5,348,620	09-20-1994	Hermans et al.	
	US-5,364,504	11-15-1994	Smurkoski et al.	
	US-5,366,785	11-22-1994	Sawdai	
	US-5,366,786	11-22-1994	Connor et al.	
	US-5,368,711	11-29-1994	JAIME PORIS	
	US-5,372,848	12-13-1994	KIM J. BLACKWELL	
	US-5,376,176	12-27-1994	ATSUSHI KURIYAMA	
	US-5,377,708	01-03-1995	ERIC J. BERGMAN	
	US-5,377,708	01-03-1995	Bergman et al.	
	US-5,388,945	02-14-1995	Garric et al.	
	US-5,391,285	02-21-1995	WILLIAM H. LYTLE	
	US-5,391,517	02-21-1995	Gelatos et al.	
	US-5,405,518	04-11-1995	Hsieh et al.	
	US-5,411,076		Matsunaga et al.	
	US-5,421,987		Tzanavaras et al.	
	US-5,427,674		Langenskiold et al.	
	US-5,429,686	07-04-1995		
	US-5,429,733		HIROFUMI ISHIDA	
	US-5,431,803		DiFranco et al.	
	US-5,437,777		SHUJI KISHI	
	US-5,441,629	08-15-1995		
	US-5,442,416		Tateyama et al.	
	US-5,443,707	08-22-1995		
	US-5,445,484	08-29-1995		
	US-5,447,615	09-05-1995		
	US-5,454,405	10-03-1995		
	US-5,460,478	10-24-1995	Akimoto et al.	

Examiner	Date	
Signature	Considered	



Substitute for form 1449A/B/PTO		Complete If Known			
				Application Number	09/849,505-Conf. #8691
	INFORMATIO	N DIS	CLOSURE	Filing Date	May 4, 2001
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				Art Unit	1741
				Examiner Name	W. T. Leader
Shee				Attorney Docket Number	291958157US1

US-5,464,313	11-07-1995	Ohsawa	
US-5,472,502		WILLIAM T. BATCHELDER	
US-5,489,341		Bergman et al.	
US-5,500,081	03-19-1996		
US-5,501,768		Hermans et al.	
US-5,508,095	04-16-1996		
US-5,512,319	04-30-1996		
US-5,514,258		Brinket et al.	
US-5,516,412		Andricacos et al.	
US-5,522,975	06/1996	Andricacos et al.	
US-5,527,390	06-18-1996	Ono et al.	
US-5,544,421	08-13-1996	Thompson et al.	
US-5,549,808		MUKTA S. FAROOQ	
US-5,567,267	10-22-1996	Kazama et al.	
US-5,571,325	11-05-1996	TSUTOMU UEYAMA	
US-5,571,325	11-05-1996	Ueyama et al.	
US-5,575,611		Thompson et al.	
US-5,584,310		ERIC J. BERGMAN	
US-5,584,971	12-17-1996	Komino	
US-5,593,545	01-14-1997	Rugowski et al.	
US-5,597,460	01-28-1997	H. VINCENT REYNOLDS	
US-5,597,836	01-28-1997	Hackler et al.	
US-5,600,532	02-04-1997	Michiya et al.	
US-5,609,239	03-11-1997		
US-5,620,581	04-15-1997	Ang	
US-5,639,206	06-17-1997	Oda et al.	
US-5,639,316	06-17-1997	CYRIL CABRAL	
US-5,641,613	06-24-1997	Boff et al.	
US-5,650,082	07-22-1997	Anderson	
US-5,651,823	07-29-1997	Parodi et al.	
US-5,658,387	08-19-1997	TIMOTHY J. REARDON	
US-5,658,387	08-19-1997	Reardon et al.	
US-5,660,472	08-26-1997		
US-5,660,517	08/1997	Thompson et al.	
US-5,662,788		GURTEJ SANDHU	
US-5,664,337		Davis et al.	
US-5,670,034		KENNETH J. LOWERY	
US-5,676,337	10/1997	Giras et al.	
US-5,677,118		Spara et al.	
US-5,678,320	10-21-1997		
US-5,678,320	10/1997	Thompson et al.	
US-5,681,392		EUGENE A. SWAIN	
US-5,683,564	11-04-1997		
US-5,684,654		Searle et al.	
US-5,700,127	12-23-1997		
US-5,711,646	01/1998	Ueda et al.	
US-5,723,028		JAIME PORIS	
US-5,731,678	03-24-1998		
US-5,744,019	04-28-1998	Ang	

Examiner	· · · · ·	Date	
Signature		Considered	



Complete if Known Substitute for form 1449A/B/PTO Application Number 09/849,505-Conf. #8691 **INFORMATION DISCLOSURE** Filing Date May 4, 2001 STATEMENT BY APPLICANT First Named Inventor Gregory J. Wilson Art Unit 1741 (Use as many sheets as necessary) W. T. Leader Examiner Name Sheet 6 of 10 291958157US1 Attorney Docket Number

	US-5,746,565	05/1998	Tepolt	<u> </u>
	US-5,747,098			
 	US-5,755,948	05-05-1998		
			Lazaro et al.	
-	US-5,759,006	06/1998	Miyamoto et al.	
\vdash	US-5,762,751		MARTIN C. BLECK	
<u> </u>	US-5,765,444	06-16-1998	<u> </u>	
	US-5,765,889	06/1998	Nam et al.	
	US-5,776,327	07-07-1998		
-	US-5,785,826		ALEX GREENSPAN	
	US-5,788,829	08-04-1998		
	US-5,802,856		Schaper et al.	
	US-5,829,791		Kotsubo et al.	
	US-5,843,296	12-01-1998		
	US-5,871,626		DOUGLAS E. CRAFTS	
	US-5,871,805		JEROME LEMELSON	
<u> </u>	US-5,882,498		VALERY DUBIN	
	US-5,892,207		Kawamura et al.	
igsquare	US-5,904,827	05-18-1999		
	US-5,908,543		TAKASHI MATSUNAMI	
	US-5,925,227	07/1999	Kobayashi et al.	
	US-5,932,077		H. VINCENT REYNOLDS	
	US-5,937,142		Moslehi et al.	
	US-5,957,836	09-28-1999		
	US-5,980,706		MARTIN BLECK	
	US-5,985,126		MARTIN C. BLECK	
	US-5,989,406		CHARLES P. BEETZ	
	US-5,998,123	12-07-1999	Tanaka et al.	
	US-6,001,235		Arken et al.	
	US-6,004,828		KYLE M. HANSON	
	US-6,017,820	01-25-2000		
	US-6,027,631	02-22-2000	ELIOT K. BROADBENT	
	US-6,053,687	04-25-2000	THOMAS I. KIRKPATRICK	
	US-6,072,160	06-06-2000		
	US-6,072,163	06-06-2000	Armstrong et al.	
	US-6,074,544	06-13-2000	JONATHAN D. REID	
	US-6,080,288		Schwartz et al.	
	US-6,080,291		Woodruff et al.	
	US-6,080,691	06-27-2000	Lindsay et al.	
	US-6,086,680		Foster et al.	
	US-6,090,260	07-18-2000	SATOSHI INOUE	
	US-6,091,498	07-18-2000	KYLE HANSON	
	US-6,099,702	08-08-2000	JONATHAN D. REID	
	US-6,099,712		THOMAS L. RITZDORF	
	US-6,103,085	08-15-2000		
	US-6,107,192		Subrahmanyan et al.	
	US-6,108,937		Raaijmakers	
	US-6,110,011		SASSON SOMEKH	
	US-6,110,346		JONATHAN D. REID	
-	US-6,130,415	10-10-2000		
<u> </u>	1,,	,	1	

Examiner	Date	
Signature	Considered	



Substitute for form 1449A/B/PTO

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Sheet

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Attorney Docket Number	291958157US1				

	110 6 426 462	140 24 2000	DODIN CUEUNO	
	US-6,136,163		ROBIN CHEUNG	
	US-6,139,703		Hanson et al.	
	US-6,139,712		EVAN E. PATTON	
	US-6,140,234	10-31-2000	<u> </u>	
	US-6,143,147	11-07-2000		
	US-6,143,155		JOHN A. ADAMS	
	US-6,156,167		EVAN E. PATTON	
	US-6,157,106	12-05-2000		
	US-6,159,354		ROBERT J. CONTOLINI	
	US-6,162,344		JONATHAN D. REID	
	US-6,168,695		DANIEL J. WOODRUFF	
	US-6,174,425	01-16-2001		
	US-6,174,796	01-16-2001	Takagi et al.	
	US-6,179,983	01-30-2001	JONATHAN DAVID REID	
	US-6,184,068	02-06-2001	Ohtani et al.	
	US-6,193,859	02-27-2001	ROBERT J. CONTOLINI	
	US-6,218,097	04-17-2001		
	US-6,221,230	01-01-2001	HIROMITSU TAKEUCHI	
	US-6,228,232	05-08-2001		
	US-6,234,738	05-22-2001	KAZUO KIMATA	
	US-6,251,238	06-26-2001		
	US-6,251,528	06-26-2001	Uzoh et al.	
	US-6,254,742	07-03-2001	Hanson et al.	
	US-6,258,220	07-10-2001	YEZDI DORDI	
	US-6,261,433	07-17-2001	UZIEL LANDAU	
	US-6,270,647	08-07-2001	LYNDON W. GRAHAM	
	US-6,277,263	08-21-2001	LINLIN CHEN	
	US-6,278,089	08-21-2001	Young et al.	
	US-6,280,183		Mayur et al.	
	US-6,280,582	08-28-2001	Woodruff et al.	
	US-6,280,583	08-28-2001	Woodruff et al.	
	US-6,297,154	10-02-2001		
	US-6,303,010	10-16-2001	Woodruff et al.	
	US-6,309,520	10-30-2001	Woodruff et al.	
	US-6,309,524		Woodruff et al.	
	US-6,318,951		WAYNE J. SCHMIDT	
	US-6,322,112		Franklin Duncan	
	US-6,322,677		Daniel Woodruff	
	US-6,342,137		Daniel Woodruff	
	US-6,365,729		Sanjay Tyagi	
	US-6,391,166		HUI WANG	
	US-6,402,923		Steven Mayer	
	US-6,409,892		Woodruff et al.	
	US-6,428,660		Woodruff et al.	
	US-6,428,662		Woodruff et al.	
	US-6,444,101		JOSEPH STEVENS	
	US-6,471,913		Weaver et al.	
	US-6,481,956		CHRISTOPHER A. HOFMEISTER	
	US-6,491,806		Valery Dubin	
	100-0,491,000	112 10-2002	Traisi, Dubin	<u> </u>

Examiner	Date
Signature	Considered

Substitute for form 1449A/B/PTO

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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

Complete if Known					
Application Number	09/849,505-Conf. #8691				
Filing Date	May 4, 2001				
First Named Inventor	Gregory J. Wilson				
Art Unit	1741				
Examiner Name	W. T. Leader				
Attorney Docket Number	291958157US1				

US-6,497,801	12-24-2002	DANIEL J WOODRUFF
US-6,562,421	11-07-2002	Go Sudo
US-6,565,729	01-24-2002	Linlin Chen
US-6,569,297	06-27-2002	Gregory Wilson
US-6,599,412	07-29-2003	Lyndon Graham
US-6,623,609	09-27-2001	Randy Harris
US-6,632,334	12-05-2002	Timothy Anderson
US-6,660,137	01-24-2002	Gregory Wilson
US-6,699,373	08-15-2002	Daniel Woodruff
US-6,709,562	01-01-2001	PANAYOTIS C. ANDRICACOS
US-6,755,954	06-29-2004	Mayer et al.
US-60/129,055		McHugh
US-60/143,769		McHugh
US-60/182,160		McHugh et al.
US-60/206,663		Wilson et al.
US-60/294,690		Gibbons et al.
US-60/316,597		Hanson
US-60/607,046		Klocke
US-60/607,460		Klocke

		FOREIG	GN PATENT	DOCUMENTS	· · · · · · · · · · · · · · · · · · ·	
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		CA-873651	06/1971	Cronin, DC		1
		DE-195 25 666	10-02-1996	Huebsch et al.		
	,	DE-41 14 427	11-05-1992	Moritz, Heiko		
		EP-0 140 404 A1	08-16-1984	The Proctor & Gamble Co.		
		EP-0 257 670	03-02-1988	Estham et al.		
		EP-0 290 210	11-09-1988	Oki Electric Industry Co.		\Box
		EP-0 677 612 A2	10-18-1995	Kimberly-Clark Corp.		
		EP-0 677 612 A3	10-18-1985	Kimberly-Clark Corp		
		EP-0 881 673 A2	05-08-1998	Intl Business Machines Corp		
		EP-0 982 771 A1	08-17-1999	Lucent Technologies, Inc.		
		EP-0047132 B1	07-03-1985	Heraeus Quarzschmelze		
		EP-0290210	11-09-1988	Oki Electric Industry Co.		
		EP-0452939 B1	11-02-2000	Applied Materials, Inc.		
		EP-0544311 B1	05-15-1996	Dainippon Screen Mfg. Co. Ltd		
		EP-0582019 B1	10-18-1995	Intl Business Machines		
		EP-1 069 213 A2	07-11-2000	Applied Materials Inc.		\Box
		GB-2 254 288 A	03-24-1992	Scapa Group Pic		\Box
		GB-2 279 372A	06-23-1994	Kimberly-Clark Corp.		
		GB-2217107A	03-23-1989			\Box
		JP-10-083960	03-31-1998	Takashi		
		JP-1048442	02-22-1989	Texas Instru Japan		
		JP-4144150	05-18-1992	Oki Electric Ind Co Ltd		
		JP-5146984	06-15-1993	Murata Mach Ltd.		
		JP-5211224	08-20-1993	Texan Instr Japan		\Box
		WO-00/02675	01-02-2000	Semitool, Inc.		
Examine: Signature				Date Considered		



Complete if Known Substitute for form 1449A/B/PTO 09/849,505-Conf. #8691 Application Number INFORMATION DISCLOSURE May 4, 2001 Filing Date STATEMENT BY APPLICANT Gregory J. Wilson First Named Inventor Art Unit 1741 (Use as many sheets as necessary) W. T. Leader Examiner Name 291958157US1 9 of 10 Attorney Docket Number Sheet

WO-00/02808	01-2	0-2000	Semitool, Inc.		_
WO-00/02808 A1	01/2		Semitool Inc.		_
WO-00/03072	01-2	0-2000	Woodruff et al.		
WO-00/32835	06-0	8-2000	Dordi et al.		
WO-00/61498	10-1	9-2000	Wilson et al.		
WO-00/61837	10-1	9-2000	Wilson et al.		
WO-01/46910 -					_
WO-01/90434	11-2	9-2001	Semitool, Inc.		
WO-01/91163	11-2	9-2001	Semitool, Inc.		
WO-02/02808	01-2	0-2000	Semitool, Inc.		
WO-02/045476	06-1	3-2002	Semitool, Inc.		
WO-02/097165	12-0	5-2002	Semitool, Inc.		
WO-02/099165	12-1	2-2002	Semitool, Inc.		
WO-02/17203	,				
WO-02/97165	12-0	5-2002	Semitool, Inc.		
WO-02/99165	12-1	2-2002	Semitool, Inc.		
WO-03/18874	. 09-0	3-2002	Semitool, Inc.		
WO-90/00476	01-2	5-1990	Tuckerman		
WO-91/04213	04-0	4-1991	Wong et al.		
WO-95/06326	03-0	2-1995	Semitool, Inc.		
WO-95/20064	07-2	7-1995	Berg		_
WO-99/16936	. 04-0	8-1996	Semitool, Inc.		
WO-99/25904	. 05-2	7-1999	Reid et al.	ĺ	
WO-99/25905	· 05-2	7-1999	Patton et al.		
 WO-99/40615	08-1	2-1999	Ritzdorf et al.		
WO-99/41434	08-1	9-1999	ACM Research, Inc.		
WO-99/45745	. 09-1	0-1999	Armstrong et al.		

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
		CONTOLINI ET AL., "Copper Electroplating Process for Sub-Half-Micron ULSI Structures," VMIC Conference 1995 ISMIC - 04/95/0322, pgs 322-328, June 17-29, 1995			
		DEVARAJ et al., "Pulsed Electrodeposition of Copper," Plating & Surface Finishing, Pgs 72-78, August 1992			
		DUBIN, "Copper Plating Techniques for ULSI Metallization," Advanced MicroDevices			
		DUBIN, V.M., "Electrochemical Deposition of Copper for On-Chip Interconnects," Advanced MicroDevices			
		GAUVIN et al., "The Effect of Chloride Ions on Copper Deposition," J. of Electrochemical Society, Vol 99, pgs 71-75, February 1952			
		LEE, TIEN-YU TOM, "Application of a CFD Tool in Designing a Fountain Plating Cell for Uniform Bump Plating of Semiconductor Wafers," IEE Transactions on Components, Packaging, and Manufacturing Technology (February 1996), Vol. 19, No. 1, IEEE			
Examiner Signature		Date Considered			

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PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
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LOWENHEIM, F.A., "Electroplating," Jan 1979, 12 pgs, McGraw-Hill Book Company	
LOWENHEIM, Frederick A., "Electroplating Electrochemistry Applied to Electroplating," 1978,	
pp 152-155, McGraw-Hill Book Company, New York	
OSSRO, N.M., "An Overview of Pulse Plating," Plating and Surface Finishing, March 1986	
PASSAL, F., "Copper Plating During the Last Fifty Years," Plating, pgs 628-638, June 1959	
 PATENT ABSTRACT OF JAPAN, "Partial Plating Device," Publication No. 01234590,	
Publication Date: Sept 19, 1989	
PATENT ABSTRACT OF JAPAN, "Plating Method" Publication No. 57171690, Publication	
Date: October 22, 1982	
SINGER, P., "Copper Goes Mainstream: Low k to Follow," Semiconductor International, pgs	
67-70, November 1997	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ** CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120.

Examiner	Date	
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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Application Number 09/849,505-Conf. #8691 **TRANSMITTAL** Filing Date May 4, 2001 **FORM** First Named Inventor Gregory J. Wilson Art Unit 1741 (to be used for all correspondence after initial filing) Examiner Name W. T. Leader Attorney Docket Number 291958157US1 13 Total Number of Pages in This Submission

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Fee Transmittal Form	Drawing(s)	After Allowance communication to Technology Center (TC)				
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences				
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Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter				
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